



XM157 Class IV Unmanned Aerial System (UAS)



The XM157 Class IV Unmanned Aerial System (UAS) has a range and endurance appropriate for the brigade mission. It supports the Brigade Combat Team (BCT) Commander with communications relay, long endurance persistent stare and wide area surveillance. Unique missions include dedicated manned and unmanned teaming with manned aviation, Wide Band Communications Relay and standoff Chemical, Biological, Radiological, Nuclear detection with on-board processing.



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What does the system bring to the Battlefield?

- Supports the Brigade Combat Team (BCT) reconnaissance and surveillance and target acquisition (RSTA) mission with the capability for long endurance persistent stare (maintain constant surveillance) and wide area surveillance, day and night, during adverse weather.
- Manned / Unmanned teaming (MUM)
- Wideband Communications Relay
- Standoff Chemical, Biological, Radiological, Nuclear and Energy (CBRNE) detection
- Met Data for Non-Line-Of-Sight (NLOS) targeting
- Cross-cueing multiple sensors with connectivity to Army and Joint RSTA and communications systems.

What does the system bring to the Warfighter?

- The Class IV UAS is a Brigade level Vertical Take Off and Landing UAS designed for autonomous Launch and Recovery Operations, with the capability to maintain constant surveillance enabling observation of urban infrastructure.
- Provides precision targeting, wide area surveillance and Aided Target Recognition (AiTR) using Synthetic Aperture Radar and Ground Moving Target Indicator (SAR/GMTI).
- Manned / Unmanned (MUM) teaming capabilities not currently available in the Army UAS inventory for RSTA filling known capability gaps that exist in force operations, such as:
 - Protection Force in Counterinsurgency Operations
 - Network Enabled Battle Command
 - Soldier Protection in Counterinsurgency Environment
 - Joint Interoperability, Coalition and Interagency Operations
 - Tactical Communications
 - Ability to Conduct Joint Urban Operations
 - Enhanced RSTA Capabilities
 - Ability to Conduct Unmanned Logistics Delivery
 - Network Thickening (Communications Relay-AMF)

